

AMENDMENTS TO THE SPECIFICATION

Please amend the specification as follows:

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Please amend the paragraph beginning on line 7 to read as follows:

The present invention is characterized by a shape of the taper surface T (axial tooth profile). With this taper surface T having the shape defined by the second interconnecting section I2, the respective taper surfaces T of the screw rotors 2a, 2b are brought into contact with each other only at the pitch line P. At the pitch line P, the taper surfaces T of the screw rotors 2a, 2b are moved at the same speed (a relative speed of 0), and hence the screw rotors 2a, 2b can be brought into rolling contact with each other. Therefore, the screw rotors 2a, 2b are rotated synchronously and smoothly in the opposite directions through the rolling contact. In this embodiment, the second interconnecting section I2 constituting the taper surface T comprises a combination of the two straight lines c-e and e-b. Alternatively, the second interconnecting section I2 may comprise a single curve inclining in such a manner that a gradient of the curve increases gradually from the tooth root section F toward the outer circumferential section E, or may comprise a combination of a straight line and a curve.